PILOT SIGNAL FOR SYNCHRONIZATION AND/OR CHANNEL ESTIMATION

Publication number: JP2000349703
Publication date: 2000-12-15
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Classification:
- International: ***H04B1/707; H04B7/26; H04L7/00;*** **H04B1/707; H04B7/26; H04L7/00;** (IPC1-7): H04B7/26; H04B1/707; H04L7/00
- European:
Application number: JP20000072966 20000315
Priority number(s): KR19990008630 19990315; KR19990012856 19990412; KR19990012867 19990412; KR19990015722 19990430; KR19990019505 19990528; KR19990019506 19990528; KR19990019610 19990529; KR19990023140 19990619; KR19990023141 19990619; KR19990023568 19990622; KR19990023937 19990624; KR19990026689 19990702; KR19990034212 19990818

Abstract of **JP2000349703**

PROBLEM TO BE SOLVED: To provide an optimum self-correlation result by generating the set of first prescribed values based on a first sequence, generating the set of second prescribed values based on a second sequence having a prescribed second relation with the set of the second values and combining the set of the first and second values. SOLUTION: A new frame synchronous word has the minimum correlation result value of a self-correlation function having two peak values whose polarities are opposite and whose sizes are the same in a zero shift and an intermediate shift. Frame synchronous words C1 to C4 are latched by latch circuits 31 to 34. Correlation units 41 to 44 give a correlation function R(x) to the frame synchronous words C1 to C4 and generate correlation result values A1 to A4 to be stored in buffers 51 to 53. The correlation result values at points A1 to A4 and the correlation result value at a point B show maximum values whose polarities are opposite in a zero time shift R(0) and an intermediate time shift R (8).